**Title** : Percent increase in water usage

**Instructions** : Compare your mathematical problem solving to this rubric as you solve problems.

|  | **4** | **3** | **2** | **1** | **My Score** |
| --- | --- | --- | --- | --- | --- |
| Explanation | I clearly explain the mathematical problem in detail. | I explain the mathematical problem. | I explain the mathematical problem, but my explanation is somewhat confusing or is missing some components. | I try to explain the mathematical problem, but my explanation is difficult to understand and is missing several components. |  |
| Procedures | The procedures I use to arrive at the solution are detailed, clear, and include all of the steps required to solve the problem. | The procedures I use to arrive at the solution are clear and include most of the steps required to solve the problem. | The procedures I use to arrive at the solution are somewhat clear, but some important steps required to solve the problem are missing. | The procedures I use to arrive at the solution are unclear, and many of the steps required to solve the problem are incorrect or missing. |  |
| Knowledge | My work shows that I understand all of the mathematical concepts needed to solve the problem. | My work shows that I understand the most important mathematical concepts needed to solve the problem. | My work shows that I understand some of the mathematical concepts needed to solve the problem. | My work shows that I do not understand the most important mathematical concepts needed to solve the problem. |  |
| Visual Representations | I create detailed graphs, animations, and other visuals that are clear and easy to understand. | I create graphs, animations, and other visuals that are fairly clear and easy to understand. | I create graphs, animations, or other visuals, but they are somewhat difficult to understand. | I create graphs, animations, or other visuals, but they are difficult to understand or are missing components. |  |
| Mathematical Vocabulary | I always use correct mathematical terminology and notation, making it easy for others to follow or understand. | I use correct mathematical terminology and notation most of the time, making it fairly easy for others to follow or understand. | I use mathematical terminology and notation, but sometimes my work is hard to understand. | I try to use mathematical terminology and notation, but my work is often incorrect. |  |
| Total |  |  |  |  |  |